

WINPTech2010

Workshop on Information, Nano and Photonics Technology 2010

PROGRAM

December 2 (Thursday) – 3 (Friday), 2010

KOBE University Centennial Hall and
Takikawa Memorial Hall,
Kobe University, Kobe, Japan

Organized by: **Department of Frontier Research and Technology,
Center for Collaborative Research and Technology Development (CREATE), Kobe University**

In cooperation with: **IEEE Photonics Society Kansai Chapter, IEICE, The Chemical Society of Japan,
The Japan Society of Applied Physics, The Physical Society of Japan**

((English) No. 37 & 39 in Rokkodai Campus map: <http://www.kobe-u.ac.jp/en/access/rokko/campus.htm>)

((Japanese) No. 54 & 57 in Rokkodai Campus map: <http://www.kobe-u.ac.jp/info/access/rokko/rokkodai-dai2.htm>)

December 2 (Thursday) [KOBE University Centennial Hall]

- 10:00-10:10** **Opening remarks**
Chiharu Nakamura (Vice President, Kobe University)
- 10:10-10:30** **Workshop introduction**
Shinji Hayashi (Graduate School of Engineering and CREATE, Kobe University)
- University Research and Industrial Exploitation**
- 10:30-11:20** **Plenary talk**
**Nanotechnology and Photonics at the Technical University of Denmark –
From Research Highlights to Industrial Exploitation**
Morgens Rysholt Poulsen (Technical University of Denmark, Denmark)
- 11:20-12:00** **Photoconductive Detectors for High Resolution X-Ray Imaging:
From Basic Research to Commercialization**
Safa Kasap (University of Saskatchewan, Canada)
- 12:00-13:10** **(Lunch)**
- Nanostructure Materials and Photonics Applications**
- 13:10-13:50** **Gold Nanorods: A Key Material for Plasmonics**
Sunao Yamada (Kyushu University)
- 13:50-14:30** **MBE Growth of Advanced Quantum Dot Photonic Devices**
Mark Hopkinson (The University of Sheffield, UK)
- 14:30-14:50** **(Photo & coffee break)**
- 14:50-15:30** **Highly Efficient Dye-Sensitized Solar Cells**
Liyuan Han (National Institute for Materials Science)
- 15:30-16:10** **In Vivo Observation of Dermal Collagen Fiber in Human Skin Using a Second Harmonic-Generation Microscope**
Tsutomu Araki (Osaka University)
- 16:10-17:40** **POSTER SESSION**
- 17:40-19:40** **Banquet (Takikawa Memorial Hall)**

December 3 (Friday) [Takikawa Memorial Hall]

- Water and Light**
- 9:00-9:50** **Plenary Talk**
Water and Opto-Magnetic Convolution Spectra of Digital Image for Nanomedicine
Juro Koruga (University of Belgrade, Serbia)
- 9:50-10:20** **Water Specific Movement and Imaging in Plants Applying Radiation and Radioisotopes**
Tomoko M. Nakanishi (The University of Tokyo)
- 10:20-10:40** **(Photo and Coffee break)**
- 10:40-11:10** **CARS Imaging and Simulation of Water Movement: A Novel Approach to Water Transport Physiology**
Yoshiro Sohma (Keio University)
- 11:10-11:40** **Multivariate Analysis of Spectral Data for Better Understanding of Water - Light Interaction**
Aoife Gowen (The University of Dublin, Ireland)
- 11:40-12:10** **Far Ultraviolet Spectroscopy Study of Water and Aqueous Solutions**
Yukihiro Ozaki (Kwansei Gakuin University)
- 12:10-13:20** **(Lunch)**
- Third-Generation Solar Cells**
- 13:20-14:10** **Plenary talk**
High Efficiency Quantum Well Solar Cells
Ned J. Ekins-Daukes (Imperial College London, UK)
- 14:10-14:50** **Design and Growth Improvement in Quantum Wells for High-Efficiency Tandem Solar Cells**
Masakazu Sugiyama, Kentaro Watanabe, and Yoshiaki Nakano (The University of Tokyo)
- 14:50-15:10** **(Photo & coffee break)**
- 15:10-15:50** **THz Spectroscopic Studies of Technological Materials for Silicon Thin Film Solar Cells**
Ci-Ling Pan (National Tsing Hua University, Taiwan)
- 15:50-16:30** **Plasmonics Toward High-Efficiency LEDs and Solar Cells**
Koichi Okamoto (Kyoto University, JST PRESTO)
- 16:30-17:10** **Quantum Dot Superlattice Intermediate Band Solar Cell; Proving the Concept and Beyond**
Yoshitaka Okada (The University of Tokyo)
- 17:10-17:20** **Closing remarks**
Osamu Wada (CREATE, Kobe University)

Contact address

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Access to Rokkodai campus

(English) <http://www.kobe-u.ac.jp/en/access/rokko/campus.htm>
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